



<110> Owens, S. Michael.
Lacy, H. Marie

<120> Mouse/Human Chimeric Anti-Phencyclidine
Antibody And Uses Thereof

<130> D6508

<140> USSN 10/828,782
<141> 2004-04-21

<150> USSN 60/464,190
<151> 2003-04-21

<160> 18

<210> 1
<211> 39
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<222> 18, 22, 28, 31, 34
<223> 5' primer with a *EcoRV* site used to amplify
leader region of murine IgG1; r=a/g, s=c/g,
k=t/g, m=c/a.

<400> 1
ggggatatcc accatggrat gsagctgkgt matsctctt 39

<210> 2
<211> 39
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<222> 17, 26, 33
<223> 5' primer with a *EcoRV* site used to
amplify the leader region of murine
IgG1; r=a/g, y=t/c, k=t/g.

<400> 2
ggggatatcc accatgract tcgggytgag ctkggtttt 39

<210> 3
<211> 38
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<223> 5' primer with a *EcoRV* site used to
amplify the leader region of murine IgG1.

<400> 3
ggggatatcc accatggctg tcttggggct gctcttct 38

<210> 4
<211> 38
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<223> 5' primer with a *EcoRV* site used to
amplify the leader region of murine
kappa chain.

<400> 4
ggggatatcc accatggaga cagacacact cctgctat 38

<210> 5
<211> 39
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<223> 5' primer with a *EcoRV* site used to
amplify the leader region of murine
kappa chain.

<400> 5
ggggatatcc accatggatt ttcaggtgca gattttcag 39

<210> 6
<211> 40
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<222> 17, 25, 28, 37, 38
<223> 5' primer with a *EcoRV* site used to
amplify the leader region of murine kappa
chain, r=g/a, k=g/t, y=t/c.

<400> 6
ggggatatcc accatgragt cacakacyca ggtcttyrta 40

<210> 7
<211> 40
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<222> 20, 25, 32, 34, 37, 40
<223> 5' primer with a *EcoRV* site used to amplify
the leader region of murine kappa chain;

k=g/t, w=a/t, y=t/c, r=g/a.

<400> 7
ggggatatcc accatgaggk ccccwgctca gytyctkggr 40

<210> 8

<211> 37

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> 5' primer with a *EcoRV* site used to amplify
the leader region of murine kappa chain.

<400> 8
ggggatatcc accatgaagt tgcctggttag gctgttg 37

<210> 9

<211> 37

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> 5' primer with a *NheI* site used to amplify
the V_L region of mAb6B5.

<400> 9

cccgctagcc accatgaagt tgcttgtag gctgttg 37

<210> 10

<211> 31

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> 3' primer with a NotI site used to amplify
the V_L region of mAb6B5.

<400> 10

tatagcggcc gcagttttta tttccagctt g 31

<210> 11

<211> 39

<212> DNA

<213> artificial sequence

<220>

<221> primer_bind

<223> 5' primer generated from primer with SEQ ID NO.1
and used to amplify V_H of mAb6B5; r=a (*18),
s=c (*22) and g (*34), k=t (*28), m=a (*31)
* position in the primer sequence.

<400> 11

ggggatatcc accatggaat gcagctgtgt aatgctctt 39

<210> 12
<211> 30
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<223> 3' primer with a *NheI* site used to amplify
the V_H region of mAb6B5.

<400> 12
ggggctagct gaggagactg tgagagtgg 30

<210> 13
<211> 39
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<223> 5' primer used to amplify ch-mAb6B5, where
the sequence is similar to primer with SEQ ID
No. 11, except the *EcoRV* site is replaced by
NheI site.

<400> 13
ggggctagcc accatggaat gcagctgtgt aatgctctt 39

<210> 14
<211> 31
<212> DNA
<213> artificial sequence

<220>
<221> primer_bind
<223> 3' primer with a *XhoI* site used to
amplify ch-mAb6B5.

<400> 14
gggctcgagt catttacccg gagacaggga g 31

<210> 15
<211> 714
<212> DNA
<213> artificial sequence

<220>
<223> Nucleotide sequence of anti-PCP
ch-mAb6B5 light chain.

<400> 15
atgaagttgc ctgtaggct gttggtgctg atgttctgga ttcctgcttc 50
cagcagtgat gttttgatga cccaaactcc actctccctg cctgtcagtc 100
ttggagatca agcctccatc tcttgcagat ctagtcagac cattgtacat 150
agtaatggaa acacctatctt agaatggtac ctgcagaaac caggccagtc 200
tccaaagctc ctgatctaca aagtttccaa ccgattttct ggggtcccag 250
acaggttcag tggcagtgga tcagggacag atttcacact caagatcagc 300


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agagtggagg ctgaggatct gggagtttat tactgctttc aaggcacaca 350
tgctccgtac acgttcggag gggggaccaa gctggaaata aaaactgcgg 400
ccgcaccatc tgtcttcac tccccgcat ctgatgagca gttgaaatct 450
ggaactgcct ctgttggtg cctgctgaat aacttctatc ccagagaggc 500
caaagtacag tggaaggtgg ataacgccct ccaatcgggt aactcccagg 550
agagtgtcac agagcaggac agcaaggaca gcacctacag cctcagcagc 600
accctgacgc tgagcaaagc agactacgag aaacacaaag tctacgcctg 650
cgaagtcacc catcagggcc tgagctcgcc cgtcacaaag agcttcaaca 700
ggggagagtg ttga                                     714

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<210> 16

<211> 237

<212> PRT

<213> artificial sequence

<220>

<223> Amino acid sequence of anti-PCP
ch-mAb6B5 light chain.

<400> 16

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Met Lys Leu Pro Val Arg Leu Leu Val Leu Met Phe Trp Ile Pro
      5                                10                                15
Ala Ser Ser Ser Asp Val Leu Met Thr Gln Thr Pro Leu Ser Leu
      20                                25                                30
Pro Val Ser Leu Gly Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser
      35                                40                                45
Gln Thr Ile Val His Ser Asn Gly Asn Thr Tyr Leu Glu Trp Tyr
      50                                55                                60
Leu Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Tyr Lys Val
      65                                70                                75
Ser Asn Arg Phe Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Gly
      80                                85                                90
Ser Gly Thr Asp Phe Thr Leu Lys Ile Ser Arg Val Glu Ala Glu
      95                                100                               105

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Asp	Leu	Gly	Val	Tyr	Tyr	Cys	Phe	Gln	Gly	Thr	His	Ala	Pro	Tyr	
				110					115					120	
Thr	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Glu	Ile	Lys	Thr	Ala	Ala	Ala	
				125					130					135	
Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu	Gln	Leu	Lys	Ser	
				140					145					150	
Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe	Tyr	Pro	Arg	
				155					160					165	
Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln	Ser	Gly	
				170					175					180	
Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser	Thr	
				185					190					195	
Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu	
				200					205					210	
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	
				215					220					225	
Ser	Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys				
				230					235						

<210> 17

<211> 1389

<212> DNA

<213> artificial sequence

<220>

<223> Nucleotide sequence of anti-PCP

ch-mAb6B5 heavy chain.

<400> 17

atggaatgca	gctgtgtaat	gctcttcctc	ctgtcaggaa	ctgcaggtgt	50
cctctctgag	gtccagctgc	aacagtctgg	acctgagttg	gtgaagcctg	100
gggcttcagt	gaagatgtcc	tgcaaggctt	ctggctacac	tttactgac	150
tactacatac	actggatgaa	gcagagccat	ggaaagagcc	ttgagtggat	200
tggatatatt	tatcctaaca	acggtggtaa	tggtacaac	cagaagttca	250
agggcaaggc	cacattgact	gtagacaagt	cctccagcac	agcctacatg	300

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gagctccgca ccttgacatc tgaggactct gcagtctatt actgtggaag 350
atctacctgg gacgactttg actactgggg ccaaggcacc actctcacag 400
tctcctcagc tagcaccaag ggcccatcgg tcttccccct ggcgccctgc 450
tccaggagca cctccgagag cacagcggcc ctgggctgcc tggtaagga 500
ctacttcccc gaaccggtga cgggtgtcgtg gaactcaggc gctctgacca 550
gcggcgtgca caccttccca gctgtcctac agtcctcagg actctactcc 600
ctcagcagcg tggtgaccgt gccctccagc aacttcggca cccagaccta 650
cacctgcaac gtagatcaca agcccagcaa caccaagggtg gacaagacag 700
ttgagcgcaa atgttgtgtc gagtgccac cgtgccagc accacctgtg 750
gcaggaccgt cagtcttcct cttcccccca aaacccaagg acaccctcat 800
gatctcccgg acccctgagg tcacgtgcgt ggtggtggac gtgagccacg 850
aagacccga ggtccagttc aactggtacg tggacggcgt ggaggtgcat 900
aatgccaaga caaagccacg ggaggagcag ttcaacagca cgttccgtgt 950
ggtcagcgtc ctcaccgttg tgcaccagga ctggtgaac ggcaaggagt 1000
acaagtgcaa ggtctccaac aaaggcctcc cagcccccat cgagaaaacc 1050
atctccaaaa ccaaagggca gccccgagaa ccacagggtgt acaccctgcc 1100
cccatcccgg gaggagatga ccaagaacca ggtcagcctg acctgcctgg 1150
tcaaaggctt ctatcccagc gacatcgccg tggagtggga gagcaatggg 1200
cagccggaga acaactacaa gaccacacct cccatgctgg actccgacgg 1250
ctccttcttc ctctacagca agctcacctg ggacaagagc aggtggcagc 1300
aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac 1350
tacacgcaga agagcctctc cctgtctccg ggtaaata 1389

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<210> 18

<211> 462

<212> PRT

<213> artificial sequence

<220>

<223> Amino acid sequence of anti-PCP
ch-mAb6B5 heavy chain.

<400> 18

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Met Glu Cys Ser Cys Val Met Leu Phe Leu Leu Ser Gly Thr Ala
          5                                10                    15

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Gly	Val	Leu	Ser	Glu	Val	Gln	Leu	Gln	Gln	Ser	Gly	Pro	Glu	Leu	20	25	30
Val	Lys	Pro	Gly	Ala	Ser	Val	Lys	Met	Ser	Cys	Lys	Ala	Ser	Gly	35	40	45
Tyr	Thr	Gly	Thr	Asp	Tyr	Tyr	Ile	His	Trp	Met	Lys	Gln	Ser	His	50	55	60
Gly	Lys	Ser	Leu	Glu	Trp	Ile	Gly	Tyr	Ile	Tyr	Pro	Asn	Asn	Gly	65	70	75
Gly	Asn	Gly	Tyr	Asn	Gln	Lys	Phe	Lys	Gly	Lys	Ala	Thr	Leu	Thr	80	85	90
Val	Asp	Lys	Ser	Ser	Ser	Thr	Ala	Tyr	Met	Glu	Leu	Arg	Thr	Leu	95	100	105
Thr	Ser	Glu	Asp	Ser	Ala	Val	Tyr	Tyr	Cys	Gly	Arg	Ser	Thr	Trp	110	115	120
Asp	Asp	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Thr	Leu	Thr	Val	Ser	125	130	135
Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala	Pro	Cys	140	145	150
Ser	Arg	Ser	Thr	Ser	Glu	Ser	Thr	Ala	Ala	Leu	Gly	Cys	Leu	Val	155	160	165
Lys	Asp	Tyr	Phe	Pro	Glu	Pro	Val	Thr	Val	Ser	Trp	Asn	Ser	Gly	170	175	180
Ala	Leu	Thr	Ser	Gly	Val	His	Thr	Phe	Pro	Ala	Val	Leu	Gln	Ser	185	190	195
Ser	Gly	Leu	Tyr	Ser	Leu	Ser	Ser	Val	Val	Thr	Val	Pro	Ser	Ser	200	205	210
Asn	Phe	Gly	Thr	Gln	Thr	Tyr	Thr	Cys	Asn	Val	Asp	His	Lys	Pro	215	220	225
Ser	Asn	Thr	Lys	Val	Asp	Lys	Thr	Val	Glu	Arg	Lys	Cys	Cys	Val	230	235	240
Glu	Cys	Pro	Pro	Cys	Pro	Ala	Pro	Pro	Val	Ala	Gly	Pro	Ser	Val	245	250	255
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	260	265	270
Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	Asp	275	280	285
Pro	Glu	Val	Gln	Phe	Asn	Trp	Tyr	Val	Asp	Gly	Val	Glu	Val	His	290	295	300
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Phe	Asn	Ser	Thr	Phe	305	310	315

Arg	Val	Val	Ser	Val	Leu	Thr	Val	Val	His	Gln	Asp	Trp	Leu	Asn	320	325	330
Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Gly	Leu	Pro	Ala	335	340	345
Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Thr	Lys	Gly	Gln	Pro	Arg	Glu	350	355	360
Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	365	370	375
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	380	385	390
Asp	Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	395	400	405
Tyr	Lys	Thr	Thr	Pro	Pro	Met	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	410	415	420
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	425	430	435
Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	440	445	450
Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro	Gly	Lys				455	460	